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UNION CARBIDE CORP LINDE DIV -- CARBON DIOXIDE, 11042 -- 4730-01-365-6916

Product ID:CARBON DIOXIDE,11042

MSDS Date:07/01/1986

FSC:4730

NIIN:01-365-6916

Kit Part:Y

MSDS Number: CFCXM === Responsible Party ===

Company Name: UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

City: DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:203-744-3487

Emergency

Phone Num:800-UCC-HELP (800-822-4357)

CAGE:36346

=== Contractor Identification ===

Company Name: DUTCH VALLEY SUPPLY CO

Address:970 PROGRESS CTR AVE

Box:City:LAWRENCEVILLE

State:GA ZIP:30043 Country:US

Phone: (404-513-0612)

CAGE:31068

Company Name: UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001 Country:US

Phone:800-822-4357; 304-744-3487

CAGE:36346

====== Composition/Information on Ingredients ========

Ingred Name: CARBON DIOXIDE

С

AS:124-38-9
RTECS #:FF6400000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5000 PPM
ACGIH TLV:5000PPM/30000STEL;96

LD50 LC50 Mixture:TLV IS 5000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE EYE AND SKIN FROSTBITE. GAS MAY CAUS

E EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE RESPIRATORY ACIDOSIS. HIGH CONCENTRATI ONS MAY CAUSE RAPID CIRCULATORY INSUFFICIENCY LEADING TO DEATH. INGESTION IS NOT LIKLEY (GAS). CHRONIC- UNKNOWN.

Explanation of Carcinogenicity: NONE

Effects of Overexposure:FROSTBITE, EYE IRRITATION, HEADACHE, DROWSINESS, DIZZINESS, STINGING OF THE EYES, NOSE AND THROAT, EXCITATION, RAPID BREATHING AND HEART RATE, EXCESS SALIVATION, SHORTNESS OF BREATH, MUSCULAR WEAKNESS, RINGING IN THE EAR.

UNCONSCIOUSNESS, COMA, NAUSEA, VOMITING, WATERY EYES (FORMATION OF WEAK CABONIC ACID)

Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING CHRONIC RESPIRATORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FROM BREATHING EXCESSIVE CARBON DIOXIDE.

First Aid:INHALATION:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEE AN OPH

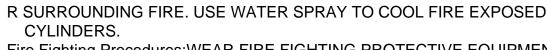
THALMOLOGIST, URGENTLY. SKIN:FLUSH WITH WARM WATER (NOT TO EXCEED 106 F). PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CO2. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS. ORAL:NOT LIKELY. LIQUID CAUSES FROSTBITE.

============ Fire Fighting Measures =========================

Flash Point:NONE

Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FO



Fire Fighting Procedures: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard: CARBON DIOXIDE CANNOT CATCH FIRE BUT

CYLINDERS MAY RUPTURE.

========= Accidental Release Measures ===============

Spill Release Procedures:LIQUID CARBON DIOXIDE WILL FORM SOLID CO2 (DRY ICE) WHEN RELEASED TO ATMOSPHERIC PRESSURE. THE AREA SHOULD BE

VENTILATED. CLEAN UP PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FA CE MASK AND HEAVY PROTECTIVE CLOTHING. Neutralizing Agent: NOT RELEVANT

============ Handling and Storage ===========================

Handling and Storage Precautions: STORE IN A COOL, WELL-VENTILATED PLACE. DO NOT STORE ABOVE 120F. KEEP OUT OF REACH OF CHILDREN. Other Precautions: KEEP AWAY FROM SOURCES OF HEAT. CAUTION! CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. USE WITH AD **EQUATE**

VENTILATION. CO2 IS HEAVIER THAN AIR AND TENDS TO ACCUMULATE NEAR THE FLOOR IN CLOSED S PACES. READ ALL LABELS INSTRUCTIONS.

===== Exposure Controls/Personal Protection ========

Respiratory Protection: NONE REQUIRED UNDER NORMAL USE. HOWEVER, AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USE MUST CONFORM WITH OSHA RULES AS SPECIF IED IN 29 CFR 1910.134.

Ventilation:SUFFICIENT TO PREV

ENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR.

Protective Gloves: INSULATED AND COLD RESISTANT NEOPRENE

Eye Protection: SAFETY GOGGLES RECOMMENDED

Other Protective Equipment: EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

KEY1:G3. THIS KIT CONSISTS OF CARBON DIOXIDE (PNI A) AND COUPLING HOSE

(PNI B), PER TECHNICAL SUPPORT AND DDSP-XP.
========= Physical/Chemical Properties ==========
HCC:G3 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:-109F SUBLI Vapor Pres:43671 @70F Vapor Density:1.52 Spec Gravity:GAS pH:ACIDIC Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT (GAS) Solubility in Water:SLIGHT Appearance and Odor:COLORLESS, ODORLESS GAS Percent Volatiles by Volume:100
======================================
Stability Indicator/Materials to Avoid:YES ALKALI METALS, ALKALINE EARTH METALS, CHROMIUM Stability Condition to Avoid:OVERHEATING CYLINDERS (125F/52C) Hazardous Decomposition Products:OXYGEN AND HIGHLY TOXIC CARBON MONOXIDE
======= Disposal Considerations ===========
Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS. DISPOSAL SHOULD BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. DEFECTIVE CYLINDERS SHOULD BE TAGGED TO INDICA TE A DEFECT.
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